DOCUMENT RESUME

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ABSTRACT

This annotated bibliography identifies the new English-language resources with new components endorsed by all Western Canadian Protocol (WCP) jurisdictions implementing the Common Curriculum Framework for K-12 Mathematics for Kindergarten to Grade 9. Resources listed in this annotated bibliography were selected through a collaborative and intensive review process based on their high level of fidelity to the rationale, philosophy, mathematical processes, and outcomes of the Common Curriculum Framework. These resources underwent an intensive review and were found to be the most suitable of those submitted. The resources are organized first by grade, then alphabetically by title. Resources that are suitable at more than one grade appear in each of the applicable grades, thus providing a comprehensive list of materials for each grade. Where material is deemed to be particularly useful for students with special needs or for small populations, e.g., learning disabled or gifted, this information is included in the audience section of the annotation. An alphabetical title listing at the end of the bibliography indicates the designated grade(s) of each resource. (ASK)

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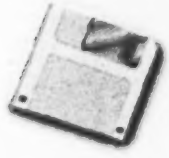
ED 452 079

WESTERN CANADIAN PROTOCOL
for collaboration in basic Education
COMMON CURRICULUM FRAMEWORK

Kindergarten to Grade 9 Mathematics Resources

Annotated Bibliography



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August 2000

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SE040681

Western Canadian Protocol for Collaboration in Basic Education Common Curriculum Framework

Kindergarten to Grade 9 Mathematics Resources

Annotated Bibliography

AUGUST 2000

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ISBN 0–7785–1088–3

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4. Mathematics — Study and teaching — Saskatchewan — Bibliography.
5. Mathematics — Study and teaching — Northwest Territories — Bibliography.
6. Mathematics — Study and teaching — Yukon Territory — Bibliography.
I. Title: Common Curriculum Framework. II. Title: Western Canadian Protocol for Collaboration in Basic Education.

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INTRODUCTION

Background

The Western Canadian Protocol for Collaboration in Basic Education Kindergarten to Grade 12 was signed in December 1993 by the ministers of education from Manitoba, Saskatchewan, Alberta, British Columbia, Yukon Territory and the Northwest Territories. *The Common Curriculum Framework for K–12 Mathematics,* for Kindergarten to Grade 9 (Common Curriculum Framework), was released in June 1995.

Foreword

This annotated bibliography identifies the new English language resources and resources with new components, endorsed in April 2000, by all Western Canadian Protocol (WCP) jurisdictions implementing *The Common Curriculum Framework for K–12 Mathematics*, for Kindergarten to Grade 9 (Common Curriculum Framework).

For a complete listing of approved resources for Kindergarten to Grade 9 mathematics, refer to:

- this August 2000 edition of the WCP *Kindergarten to Grade 9 Mathematics Resources Annotated Bibliography*
- the other editions of August 1999 and May 1997
- the WCP web site at <http://www.wcp.ca>

Resources in this annotated bibliography were selected through a collaborative and intensive review process. Based on their high level of fidelity with the rationale, philosophy, mathematical processes and outcomes of the Common Curriculum Framework, these resources were found to be the most suitable of those submitted.

Acknowledgments

In 2000, approxiomately 200 items were received in response to the invitation to publishers, producers, and distributors for submission of resources to support the Kindergarten to Grade 9 Common Curriculum Framework. The WCP jurisdictions extend their appreciation to those involved in the review and selection processes to identify the best student and teacher resources:

- 20 teachers and ministry staff selected by the participating jurisdictions to review the items
- all the school systems in the WCP jurisdictions that supported teachers participating in the review process
- the publishers, producers and distributors who, in many cases, engaged in significant development to provide resources specifically designed for the Common Curriculum Framework.

Organization

The resources in this bibliography are organized by grade, then alphabetically by title. Resources suitable at more than one grade appear in each of the applicable grades, thus providing a comprehensive list of materials for each grade.

Resources are described in annotated format as shown in the sample on page 4. If a resource is deemed to be particularly suited to students with special needs or for small populations; e.g., learning disabled, gifted, this is indicated in the Audience section of the annotation.

An alphabetical title listing at the end of the bibliography indicates the designated grade(s) of each resource.

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Note: In the annotations, Common Curriculum Framework is used to refer to *The Common Curriculum Framework for K–12 Mathematics: Western Canadian Protocol for Collaboration in Basic Education*—the Kindergarten to Grade 9 framework.

Note: See definitions on this page for clarification of terms used in this bibliography.

Alternate Format(s)

Some of the WCP approved resources are or may be available in alternate formats to address the needs of students who are visually impaired, print disabled or hearing impaired. This information is included in the annotations.

Pricing Information

The prices appearing in this document represent the estimated WCP prices to schools and should be firm until August 31, 2001.

These prices should be used as a guideline for purchase planning. They are applicable to all six participating jurisdictions. The final selling prices for these resources may vary slightly in jurisdictions with book bureaus, depending upon jurisdictional negotiations. Confirmation of pricing should be obtained directly from your jurisdictional book bureau or redistribution centre, if applicable.

For video resources, special video licencing arrangements may be negotiated by individual jurisdictions with respective video distributors. Contact your provincial/territorial video distribution centre for details.

Resource Category

All learning and teaching resources included in this annotated bibliography were approved by the Western Assistant Deputy Ministers' Steering Committee and designated as WCP Key Resources for the Common Curriculum Framework.

Definitions

Fidelity is the degree to which the learning or teaching resource addresses the general and specific outcomes in the Common Curriculum Framework.

WCP Key Resources are high quality learning and teaching resources that best address the philosophy and content of the outcomes embodied in the Common Curriculum Framework. The resources include a variety of media and formats, with the following characteristics:

- *Breadth*—learning resources with the highest possible level of fidelity with the Common Curriculum Framework general and specific outcomes published for a particular grade.
- *Depth*—learning resources that address only a subset of the outcomes with a high level of fidelity, but provide an especially effective learning experience for students.
- *Breadth and Depth*—comprehensive learning resources that provide both the *breadth* and *depth* dimensions for a particular grade.
- *Teacher*—resources that assist teachers with the implementation of the Common Curriculum Framework.

Criteria for the Selection of Learning and Teaching Resources

Resources in this annotated bibliography were selected according to the following criteria:

Content and Curriculum Fit includes the effectiveness in the way the resource:

- supports any given learning outcome within a strand or substrand
- meets student needs

Instructional Design includes:

- organization and presentation techniques
- methods used to introduce, develop and summarize concepts
- vocabulary level of the resource
- suitability to student learning styles or to special audiences

Technical Design includes such factors as:

- for print—binding, type of print, quality of illustrations, durability and format
- For software— hardware requirements, ease of navigation and robustness of programming

Software must run on operating systems that are easy for students to use and readily available in schools. At present, listed resources run on Windows 3.1, Windows 95 / 98 / NT / 2000 and Macintosh System 6.0 and later. It is conceivable that resources that run on additional operating systems, such as Linux, may be included in future lists of approved resources.

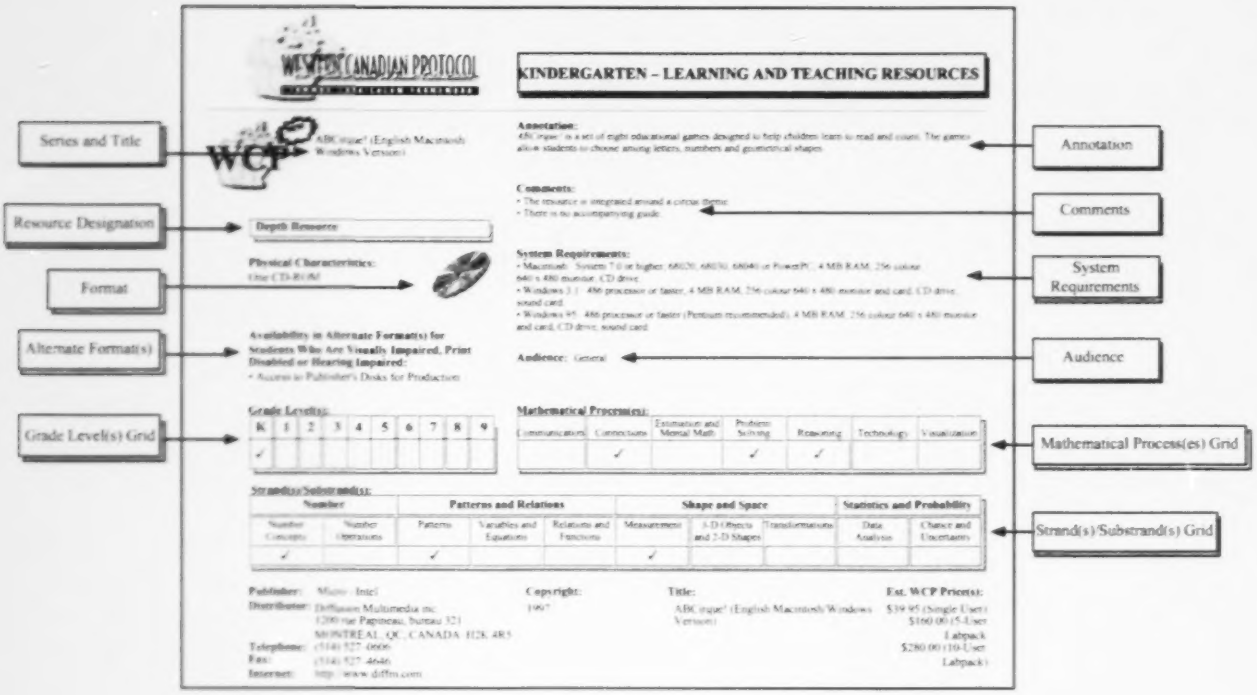
- For multimedia resources—pacing, quality of pictures/sound, user friendliness, use of special features for emphasis and interactivity

Social Considerations includes screening for social concerns.

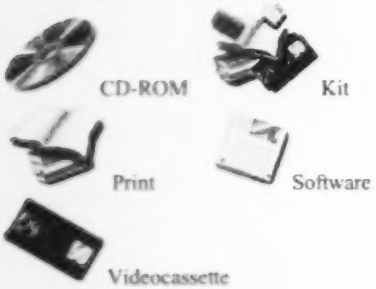
When selecting learning and teaching resources from this list, consideration should be given to how the resources meet the learning needs of students and to the perspectives of the local community.

Information on a resource may be obtained from the descriptions in this bibliography, from the distributor, from published reviews or colleagues, and from an examination of the resource.

SAMPLE ANNOTATION



- *Series and Title:* series names are indicated by italics.
  - The "New" icon identifies what is new for 2000. It may be a new resource, a new component in a multicomponent resource, or additional grade levels.
- *Resource Designation:* indicates breadth, depth, breadth and depth, or teacher resource.
- *Format:* describes physical characteristics and is represented by an icon, such as:



- *Alternate Format(s):* indicates which resources are or could be available in alternate formats for students who are visually impaired or print disabled.
- *Grade Level(s) Grid:* indicates the suitable grade level(s) of the resource.
- *Annotation:* provides an overview of the resource.
- *Comments:* provide additional information about the resource.
- *Cautions:* alert teachers to potentially sensitive issues/community concerns, or concerns about curriculum fit.
- *System Requirements:* specify the type of hardware required to run the software, and any other system information.
- *Audience* (students and teachers of those students):
  - General: the majority of students.
  - Learning Disabled (LD): students who have difficulty in processing and understanding spoken, written or visual information.
  - Gifted: students who give evidence of high perfomance capability in areas such as intellect, creativity, or specific academic disciplines.
  - ESL: students who are learning English as a second language.
  - ID (Mild): students with mild mental handicaps.
- *Mathematical Process(es) Grid:* identifies those processes students will use when working through the activities provided in the resource.
- *Strand(s)/Substrand(s) Grid:* allows teachers to see, readily, the fit between the Common Curriculum Framework strands/substrands and the outcomes covered in the resource.

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NEW WCP

Growing Mathematical Ideas in Kindergarten

Teacher Resource

Author(s):
Dacey, L.S.; Eston, R.

Physical Characteristics:
239 pages, softcover

Annotation:
This professional resource is an anecdotal record of the author's approach to teaching mathematical concepts in her kindergarten classroom. Her approach supports the rationale and philosophy of the Common Curriculum Framework and has a balance between theory and practicality. The author models the use of questioning techniques to promote mathematical thinking and understanding. This book provides extensive suggestions on how to shape a kindergarten curriculum and for assessing student understanding and growth.

Comments:
- The resource portrays the kindergarten teacher as a facilitator who guides young children to think and process in mathematical ways.

Cautions:
- Not all concepts in the Kindergarten program are addressed.
- Measurement and data analysis are not attended to in any detail.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓									

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Math Solutions Publications
Distributor: Pearson Education Canada
26 Prince Andrew Place
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 263-9965; (416) 386-3412
Fax: (416) 447-2551
Internet: http://www.pearsoned.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1999	0941355225	Growing Mathematical Ideas in Kindergarten	$25.50

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WCP NEW

Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol

• Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Kindergarten - Grade 1 Mathematics

Teacher Resource

Author(s):
Hauk, C.M.; Quinn, B.A.

Physical Characteristics:
86 pages, coilbound

Annotation:
This teacher resource is keyed directly to each illustrative example in the Common Curriculum Framework. It provides teachers with solutions that include diagrams, tables, and interpretations, and with suggestions for concept development. It highlights the mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization associated with the corresponding specific outcomes. Pages are cross-referenced to those in the Framework where the illustrative example appears.

Comments:
• This resource assists teachers in implementing the Framework.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓								

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	

Publisher: C. Marie Hauk and Bryan A. Quinn
Distributor: Math Alive
315 Dechene Road
EDMONTON, AB, CANADA T6M 1W3
Telephone: (780) 487-8841
Fax: (780) 481-9913
Internet: http://www.compusmart.ab.ca/mathaliv/

Copyright:
1999

Title:
Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Kindergarten - Grade 1 Mathematics

Est. WCP Price(s):
$9.75

Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol

• Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Kindergarten - Grade 1 Mathematics

Teacher Resource

Author(s):
Hauk, C.M.; Quinn, B.A.

Physical Characteristics:
86 pages, coilbound

Annotation:
This teacher resource is keyed directly to each illustrative example in the Common Curriculum Framework. It provides teachers with solutions that include diagrams, tables, and interpretations, and with suggestions for concept development. It highlights the mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization associated with the corresponding specific outcomes. Pages are cross-referenced to those in the Framework where the illustrative example appears.

Comments:
• This resource assists teachers in implementing the Framework.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓								

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	

Publisher: C. Marie Hauk and Bryan A. Quinn
Distributor: Math Alive
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EDMONTON, AB, CANADA T6M 1W3
Telephone: (780) 487-8841
Fax: (780) 481-9913
Internet: http://www.compusmart.ab.ca/mathaliv

Copyright:
1999

Title:
Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Kindergarten - Grade 1 Mathematics

Est. WCP Price(s):
$9.75

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There are no new resources identified for Grade 2.

GRADE 3 - LEARNING AND TEACHING RESOURCES

NEW WCP Developing Number Sense Grades 3-6

Annotation:
This teacher resource provides a series of tasks that actively engage students in problem solving, reasoning and communicating their mathematical understanding orally and in writing. It sets out a clear sequence of steps for lesson development and assessment, and includes samples of student responses. It incorporates a variety of learning styles and promotes critical thinking. Students are encouraged to think and reason flexibly, make sound numerical judgments and see numbers as being useful. Extension activities provide students with additional learning experiences.

Teacher Resource

Author(s):
Bresser, R.; Holtzman, C.

Physical Characteristics:
179 pages, softcover

Cautions:
• Imperial units of measure are used in some of the activities. These can be modified without losing the essence of the purpose of the activity.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Math Solutions Publications
Distributor: Pearson Education Canada
26 Prince Andrew Place
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 263-9965; (416) 386-3412
Fax: (416) 447-2551
Internet: http://www.pearsoned.com

Copyright: 1999
ISBN: 0941355233
Title: Developing Number Sense Grades 3-6
Est. WCP Price(s): $25.50

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WCP NEW

It All Adds Up! Engaging 8-to-12-Year-Olds in Math Investigations

Annotation:
This teacher resource encourages teachers to approach problem-solving through student interaction and discussion. The main exploration involves number patterns with addition, subtraction, multiplication and division. The classroom environment and activities suggested are conducive to group work. The rationale for this approach is explained.

Teacher Resource

Author(s):
Skinner, P.

Audience: General

Physical Characteristics:
144 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓							

Publisher: Math Solutions Publications
Distributor: Pearson Education Canada
26 Prince Andrew Place
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 263-9965; (416) 386-3412
Fax: (416) 447-2551
Internet: http://www.pearsoned.com

Copyright: 1999
ISBN: 0941355241
Title: It All Adds Up! Engaging 8-to-12-Year-Olds in Math Investigations
Est. WCP Price(s): $25.50

GRADE 4 - LEARNING AND TEACHING RESOURCES

NEW WCP Developing Number Sense Grades 3-6

Annotation:
This teacher resource provides a series of tasks that actively engage students in problem solving, reasoning and communicating their mathematical understanding orally and in writing. It sets out a clear sequence of steps for lesson development and assessment, and includes samples of student responses. It incorporates a variety of learning styles and promotes critical thinking. Students are encouraged to think and reason flexibly, make sound numerical judgments and see numbers as being useful. Extension activities provide students with additional learning experiences.

Teacher Resource

Author(s):
Bresser, R.; Holtzman, C.

Physical Characteristics:
179 pages, softcover

Cautions:
• Imperial units of measure are used in some of the activities. These can be modified without losing the essence of the purpose of the activity.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Math Solutions Publications
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Telephone: (800) 263-9965; (416) 386-3412
Fax: (416) 447-2551
Internet: http://www.pearsoned.com

Copyright: 1999
ISBN: 0941355233
Title: Developing Number Sense Grades 3-6
Est. WCP Price(s): $25.50

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NEW

WCP

It All Adds Up! Engaging 8-to-12-Year-Olds in Math Investigations

Annotation:
This teacher resource encourages teachers to approach problem-solving through student interaction and discussion. The main exploration involves number patterns with addition, subtraction, multiplication and division. The classroom environment and activities suggested are conducive to group work. The rationale for this approach is explained.

Teacher Resource

Author(s):
Skinner, P.

Audience: General

Physical Characteristics:
144 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓							

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Fax: (416) 447-2551
Internet: http://www.pearsoned.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1999	0941355241	It All Adds Up! Engaging 8-to-12-Year-Olds in Math Investigations	$25.50

GRADE 5 - LEARNING AND TEACHING RESOURCES

NEW WCP

Developing Number Sense Grades 3-6

Annotation:
This teacher resource provides a series of tasks that actively engage students in problem solving, reasoning and communicating their mathematical understanding orally and in writing. It sets out a clear sequence of steps for lesson development and assessment, and includes samples of student responses. It incorporates a variety of learning styles and promotes critical thinking. Students are encouraged to think and reason flexibly, make sound numerical judgments and see numbers as being useful. Extension activities provide students with additional learning experiences.

Teacher Resource

Author(s):
Bresser, R.; Holtzman, C.

Physical Characteristics:
179 pages, softcover

Cautions:
- Imperial units of measure are used in some of the activities. These can be modified without losing the essence of the purpose of the activity.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

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Fax: (416) 447-2551
Internet: http://www.pearsoned.com

Copyright: 1999
ISBN: 0941355233
Title: Developing Number Sense Grades 3-6
Est. WCP Price(s): $25.50

GRADE 5 - LEARNING AND TEACHING RESOURCES

It All Adds Up! Engaging 8-to-12-Year-Olds in Math Investigations

Annotation:
This teacher resource encourages teachers to approach problem-solving through student interaction and discussion. The main exploration involves number patterns with addition, subtraction, multiplication and division. The classroom environment and activities suggested are conducive to group work. The rationale for this approach is explained.

Teacher Resource

Author(s):
Skinner, P.

Audience: General

Physical Characteristics:
144 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓							

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Distributor:	Pearson Education Canada 26 Prince Andrew Place DON MILLS, ON, CANADA M3C 2T8
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Fax:	(416) 447-2551
Internet:	http://www.pearsoned.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1999	0941355241	It All Adds Up! Engaging 8-to-12-Year-Olds in Math Investigations	$25.50

GRADE 6 - LEARNING AND TEACHING RESOURCES

NEW WCP

Developing Number Sense Grades 3-6

Annotation:
This teacher resource provides a series of tasks that actively engage students in problem solving, reasoning and communicating their mathematical understanding orally and in writing. It sets out a clear sequence of steps for lesson development and assessment, and includes samples of student responses. It incorporates a variety of learning styles and promotes critical thinking. Students are encouraged to think and reason flexibly, make sound numerical judgments and see numbers as being useful. Extension activities provide students with additional learning experiences.

Teacher Resource

Author(s):
Bresser, R.; Holtzman, C.

Physical Characteristics:
179 pages, softcover

Cautions:
• Imperial units of measure are used in some of the activities. These can be modified without losing the essence of the purpose of the activity.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Math Solutions Publications
Distributor: Pearson Education Canada
26 Prince Andrew Place
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 263-9965; (416) 386-3412
Fax: (416) 447-2551
Internet: http://www.pearsoned.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1999	0941355233	Developing Number Sense Grades 3-6	$25.50

Gage Mathematics Assessment (Grade 6)

- Gage Mathematics Assessment Activities 6A
- Gage Mathematics Assessment Activities 6B
- Gage Mathematics Assessment Activities: Teacher's Resource Book: Grade 6

Teacher Resource

Author(s):
Flewelling, G.; Lind, J.; Sauer, R.

Physical Characteristics:

- Assessment Activities 6A—51 pages, paperbound
- Assessment Activities 6B—43 pages, softcover
- Teacher's Resource Book: Grade 6—153 pages + 65 pages blackline masters, softcover

Annotation:
This professional resource package consists of a teacher's guide with activities and rubrics, a student activity book of tasks and an extension booklet. It assists the grade 6 teacher in evaluation of the mathematical processes through the four strands of the Common Curriculum Framework. Rubrics are provided for assessment of students' performance in each of the strands. The assessment tasks explore multiple specific outcomes as well as the processes.

Comments:
- This resource is rubric based. All students can be evaluated by some of the methods used in this resource.

Cautions:
- A small amount of material is beyond Grade 6.
- The outcomes on page X and XI are Ontario-specific and not Western Canadian Protocol outcomes; however, they are very close.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Gage Educational Publishing Co.
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-3170
Internet: http://www.gagelearning.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
2000	0771533659	• Gage Mathematics Assessment Activities 6A	$3.95
2000	0771533667	• Gage Mathematics Assessment Activities 6B	$9.95
2000	0771533675	• Gage Mathematics Assessment Activities: Teacher's Resource Book: Grade 6	$89.95

GRADE 6 - LEARNING AND TEACHING RESOURCES

NEW
WCP

It All Adds Up! Engaging 8-to-12-Year-Olds in Math Investigations

Annotation:
This teacher resource encourages teachers to approach problem-solving through student interaction and discussion. The main exploration involves number patterns with addition, subtraction, multiplication and division. The classroom environment and activities suggested are conducive to group work. The rationale for this approach is explained.

Teacher Resource

Author(s):
Skinner, P.

Audience: General

Physical Characteristics:
144 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓							

Publisher:	Math Solutions Publications
Distributor:	Pearson Education Canada 26 Prince Andrew Place DON MILLS, ON, CANADA M3C 2T8
Telephone:	(800) 263-9965; (416) 386-3412
Fax:	(416) 447-2551
Internet:	http://www.pearsoned.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1999	0941355241	It All Adds Up! Engaging 8-to-12-Year-Olds in Math Investigations	$21.50

WCP NEW

Blackline Masters for Use with The Geometer's Sketchpad

Exploring Geometry with The Geometer's Sketchpad (with Macintosh / Windows CDROM)

Teacher Resource

Author(s):
Bennett, D.

Physical Characteristics:
287 pages, softcover blackline activity masters, one CDROM

Annotation:
This teacher resource has a CDROM and blackline masters for the Shape and Space strand of the Common Curriculum Framework for grades 7 to 9. Reproducible student pages include margin notes to guide the drawing/construction process. Activities are independent and self-guided. Visuals provide instruction on concepts that can prove difficult to teach; e.g., Pythagoras. Extensions with real life connections are included.

Comments:
- Resource lends itself to initial investigation and demonstration usage.
- Need *Geometer's Sketchpad 3.0* software, and also knowledge of and skill in its use.

System Requirements:
- Macintosh: any Macintosh, MacPlus or higher; 1 MB RAM; System 6.0 or higher; CD drive.
- Windows 3.1: 386DX/33 MHz minimum (486/50 recommended); 2 MB RAM (4 MB recommended); 256 colour monitor; CD drive.
- Windows 95: 486DX/50 MHz minimum (Pentium recommended); 4 MB RAM (8 MB recommended); 256 colour monitor; CD drive.
- Windows 98/NT/2000: Pentium 75 MHz minimum (Pentium 133 recommended, especially for network installations); 8 MB RAM (16 MB recommended); 256 colour monitor; CD drive.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Key Curriculum Press
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright: 1999
ISBN: 1559532890
Title: Exploring Geometry with The Geometer's Sketchpad (with Macintosh / Windows CDROM)
Est. WCP Price(s): $65.95

BEST COPY AVAILABLE

WCP

The Geometer's Sketchpad
• The Geometer's Sketchpad (Macintosh Version 3)
• The Geometer's Sketchpad (Windows Version 3.03)

Depth Resource

Physical Characteristics:

• Macintosh Version–Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference
• Windows Version–Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette

Annotation:
This resource kit consists of discs, a user guide and reference manual, teaching notes and sample activities, a quick reference, and an introductory video. It models geometry in two linked views: sketches and scripts. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, and the exploration of geometry concepts taught in grade 7 through grade 9. The user guide and reference manual assist in learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstration and construction activities on a wide range of geometry topics, are included.

Comments:
• This resource can have greater applications as the user becomes more familiar with the program.
• The system defaults to inches, but it can be set to centimetres.
• The demonstration version allows users to produce sketches, but these sketches cannot be saved, printed or exported to another document.
• Some of the instructions in the reference manual are difficult for the novice user to follow.
• There are more applications in Grades 7 and 8, compared to Grade 9.

System Requirements:
• Macintosh: minimum of a Macintosh Plus; 1 MB RAM; System 6 or higher. A videocassette supplied with the Windows version supports both Macintosh and Windows.
• Windows 3.1: Windows 3.1 in enhanced mode; 386/33 MHz (486 recommended); 4MB RAM; hard drive. The videocassette supports both Macintosh and Windows versions.
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Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Spectrum Educational Supplies Ltd.
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1995	1559530987	• The Geometer's Sketchpad (Macintosh Version 3)	$289.95
1995	1559530995	• The Geometer's Sketchpad (Windows Version 3.03)	$289.95

Blackline Masters for Use with The Geometer's Sketchpad

Geometry Activities for Middle School Students with The Geometer's Sketchpad (with Macintosh / Windows CDROM)

Teacher Resource

Author(s):
Wyatt, K.W.; Lawrence, A.; Foletta, G.M.

Physical Characteristics:
205 pages, softcover blackline activity masters, one CDROM

Annotation:
This professional resource has a CDROM and print material that relate well to the Shape and Space strand of the Common Curriculum Framework. Many specific objectives for lines, angles, triangles, symmetry and transformations are covered. Student projects reinforce the sketchpad demonstration. Student exercises provide immediate assessment. This add-on resource uses the power of The Geometer's Sketchpad effectively to meet the stated objectives.

Comments:
• Need *Geometer's Sketchpad 3.0* software, and also knowledge of and skill in its use.

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Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
						✓	✓		

Publisher: Key Curriculum Press
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright: 1998
ISBN: 1559532998
Title: Geometry Activities for Middle School Students with The Geometer's Sketchpad (with Macintosh / Windows CDROM)
Est. WCP Price(s): $65.95

Blackline Masters for Use with The Geometer's Sketchpad

Exploring Geometry with The Geometer's Sketchpad (with Macintosh / Windows CDROM)

Teacher Resource

Author(s):
Bennett, D.

Physical Characteristics:
287 pages, softcover blackline activity masters, one CDROM

Annotation:
This teacher resource has a CDROM and blackline masters for the Shape and Space strand of the Common Curriculum Framework for grades 7 to 9. Reproducible student pages include margin notes to guide the drawing/construction process. Activities are independent and self-guided. Visuals provide instruction on concepts that can prove difficult to teach; e.g., Pythagoras. Extensions with real life connections are included.

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Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

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Title: Exploring Geometry with The Geometer's Sketchpad (with Macintosh / Windows CDROM)
Est. WCP Price(s): $65.95

The Geometer's Sketchpad
- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)

Depth Resource

Physical Characteristics:

- Macintosh Version–Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference
- Windows Version–Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette

Annotation:
This resource kit consists of discs, a user guide and reference manual, teaching notes and sample activities, a quick reference, and an introductory video. It models geometry in two linked views: sketches and scripts. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, and the exploration of geometry concepts taught in grade 7 through grade 9. The user guide and reference manual assist in learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstration and construction activities on a wide range of geometry topics, are included.

Comments:
- This resource can have greater applications as the user becomes more familiar with the program.
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Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Spectrum Educational Supplies Ltd.
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1995	1559530987	• The Geometer's Sketchpad (Macintosh Version 3)	$289.95
1995	1559530995	• The Geometer's Sketchpad (Windows Version 3.03)	$289.95

Blackline Masters for Use with The Geometer's Sketchpad

Geometry Activities for Middle School Students with The Geometer's Sketchpad (with Macintosh / Windows CDROM)

Teacher Resource

Author(s):
Wyatt, K.W.; Lawrence, A.; Foletta, G.M.

Physical Characteristics:
205 pages, softcover blackline activity masters, one CDROM

Annotation:
This professional resource has a CDROM and print material that relate well to the Shape and Space strand of the Common Curriculum Framework. Many specific objectives for lines, angles, triangles, symmetry and transformations are covered. Student projects reinforce the sketchpad demonstration. Student exercises provide immediate assessment. This add-on resource uses the power of The Geometer's Sketchpad effectively to meet the stated objectives.

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Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
						✓	✓		

Publisher: Key Curriculum Press
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-5265
Internet: http://www.spectrumed.com

Copyright: 1998
ISBN: 1559532998
Title: Geometry Activities for Middle School Students with The Geometer's Sketchpad (with Macintosh / Windows CDROM)
Est. WCP Price(s): $65.95

Blackline Masters for Use with The Geometer's Sketchpad

Exploring Geometry with The Geometer's Sketchpad (with Macintosh / Windows CDROM)

Teacher Resource

Author(s):
Bennett, D.

Physical Characteristics:
287 pages, softcover blackline activity masters, one CDROM

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Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

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Copyright: 1999
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Title: Exploring Geometry with The Geometer's Sketchpad (with Macintosh / Windows CDROM)
Est. WCP Price(s): $65.95

WCP

The Geometer's Sketchpad
- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)

Depth Resource

Physical Characteristics:

- Macintosh Version–Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference
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Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand(s)/Substrand(s):

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Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
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Telephone: (800) 668-0600; (905) 841-0600
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Internet: http://www.spectrumed.com

Component Titles:	Copyright:	ISBN:	Est. WCP Price(s):
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Teacher Resource

Author(s):
Wyatt, K.W.; Lawrence, A.; Foletta, G.M.

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- Macintosh: any Macintosh, MacPlus or higher; 1 MB RAM; System 6.0 or higher; CD drive.
- Windows 3.1: 386DX/33 MHz minimum (486/50 recommended); 2 MB RAM (4 MB recommended); 256 colour monitor; CD drive.
- Windows 95: 486DX/50 MHz minimum (Pentium recommended); 4 MB RAM (8 MB recommended); 256 colour monitor; CD drive.
- Windows 98/NT/2000: Pentium 75 MHz minimum (Pentium 133 recommended; especially for network installations); 8 MB RAM (16 MB recommended); 256 colour monitor; CD drive.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
						✓	✓		

Publisher: Key Curriculum Press
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright: 1998
ISBN: 1559532998
Title: Geometry Activities for Middle School Students with The Geometer's Sketchpad (with Macintosh / Windows CDROM)
Est. WCP Price(s): $65.95

The Learning Equation: Mathematics 9

- CDROM's 1, 2, 3, 4 (Macintosh / Windows Version 2.2)
- Student Refresher
- Teacher's Manual

Breadth and Depth Resource

Physical Characteristics:

- CDROM 1: Number, CDROM 2: Patterns and Relations, CDROM 3: Shape and Space, CDROM 4: Statistics and Probability, and Installation Notes (28 pages, paperbound, small format)
- Student Refresher—124 pages, softcover
- Teacher's Manual—311 pages, softcover

Annotation:

This resource consists of four compact discs, a Student Refresher and a Teacher's Manual. Lessons follow the consistent pattern of an introduction followed by a tutorial example, a summary of concepts, practice problems, extra practice and a self-check. Students are able to monitor their own progress through the various components of each lesson.

- *CDROMs*

There is one CDROM for each strand of the Common Curriculum Framework. They present the grade 9 mathematics program in 56 interactive lessons, using motivational strategies. "Explorers" allow students to simulate mathematics concepts that involve the solution of linear equations, factoring, solving right triangles, volume and surface area, geometric transformation, the line of best fit, and probability. Students can access a glossary on a pull-down menu. They can adjust the sound level and control the pace at which they are moving through the material. Students are required to correctly answer questions and as they do, a portion of a puzzle is uncovered until a complete picture is revealed.

- *Student Refresher*

This resource follows the organization of the compact discs and provides additional examples and questions for students. Answers for each question are located at the end of the book.

- *Teacher's Manual*

This manual begins with installation notes for both Windows 95 and 3.1, and Macintosh. Minimum system requirements are noted and instructional components are summarized. There are cross references to the Student Refresher program objectives and terminology, and lesson components on the appropriate CDROM. Prerequisite skills are listed.

Comments:

- Calculators modelled in the program may differ from calculators students have access to.
- The faster the computer used, the better. With a 133 MHz Pentium, page loading is quick and effective. With a 486/66 MHz computer, page loading is slow.
- The "explorers" enable students to gain conceptual understanding of key outcomes, such as those for decimals and integers.
- The student refreshers can be used profitably by most students, especially in classroom situations where students have to share computers.
- The teacher can choose the roles that computer-managed learning, small-group direct instruction, and large-group direct instruction play in the organization of teaching and learning. In general, experience in pilot schools has shown that some students can profit more from independent learning situations, while other students need more direct instruction from the teacher, especially in small-group situations.
- The assessment activities on the CDROMs, and also in the Student Refresher, are useful in the formative evaluation of students, but do not convert easily to summative assessment, or to conversion from scores on self-checks to marks in an official grade book. Teachers still have to develop assessment plans for the course, together with appropriate summative assessment instruments.
- Most of the numbers used in real-life examples are realistic, and enhance the credibility of the resource. Great care has been taken to make sure that data used in examples reflects realistic situations that stand up to external checking. Students are therefore able to check for the reasonableness of their answers.

System Requirements:

- Macintosh: System 7.1 or higher; 8 MB of free RAM above system requirements (16 MB or more recommended); VGA 256 colour 14-inch or larger monitor; 15 MB or more free hard disk space; double speed CD drive or better; 8 bit sound support for audio.
- Windows 3.1: MPC2 compliant computer; 486SX 33 MHz (50 MHz or better recommended); 8 MB RAM (16 MB recommended); VGA 256 colour monitor; 40 MB or more of free hard disk space; double speed CD drive or better; Soundblaster or 100% support for audio.
- Windows 95: MPC2 compliant computer; 486SX 66 MHz (Pentium recommended); 16 MB RAM; VGA 256 colour monitor; 40 MB or more of free hard disk space; double speed CD drive or better; Soundblaster or 100% support for audio.
- Windows 98/NT/2000: MPC2 compliant computer; Pentium 100 MHz (Pentium 133 or faster recommended); 16 MB or more RAM; VGA 256 colour monitor; 40 MB or more of free hard disk space; double speed CD drive or better; Soundblaster or 100% support for audio.

- Additional requirements for network installations: faster networks provide more satisfactory performance; to run The Learning Equation: Mathematics 7 from the server hard drive and copy all the CD-ROM files requires 2.0 GB or more free space; to run The Learning Equation: Mathematics 7 from a central CD-ROM drive, the CD-ROM drive or jukebox must be connected to the network server.

Audience: General

Continued

Continued

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
									✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

		Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
Publisher:	ITP Nelson Canada				
Distributor:	Nelson Thomson Learning 1120 Birchmount Road SCARBOROUGH, ON, CANADA M1K 5G4	2000	0176157344	• CDROMs 1, 2, 3, 4 (Macintosh / Windows Version 2.2)	$64.95 ea. $219.95 (4 CD pkg.)
Telephone:	(800) 268-2222 ; (416) 752-9100	1998	0176059687	• Student Refresher	$11.95
Fax:	(800) 430-4445 ; (416) 752-9646	1998	0176059725	• Teacher's Manual	$81.95
Internet:	http://www.nelson.com/				

TITLE LISTING

TITLE/SERIES	GRADE(S)
Developing Number Sense Grades 3-6	3, 4, 5, 6
Blackline Masters for Use with The Geometer's Sketchpad Exploring Geometry with The Geometer's Sketchpad (with Macintosh / Windows CD-ROM)	7, 8, 9
Gage Mathematics Assessment (Grade 6) • Gage Mathematics Assessment Activities 6A • Gage Mathematics Assessment Activities 6B • Gage Mathematics Assessment Activities: Teacher's Resource Book: Grade 6	6
The Geometer's Sketchpad • The Geometer's Sketchpad (Macintosh Version 3) • The Geometer's Sketchpad (Windows Version 3.03)	7, 8, 9
Blackline Masters for Use with The Geometer's Sketchpad Geometry Activities for Middle School Students with The Geometer's Sketchpad (with Macintosh / Windows CD-ROM)	7, 8, 9
Growing Mathematical Ideas in Kindergarten	K
It All Adds Up! Engaging 8-to-12-Year-Olds in Math Investigations	3, 4, 5, 6
The Learning Equation: Mathematics 9 • CD-ROM's 1, 2, 3, 4 (Macintosh / Windows Version 2.2) • Student Refresher • Teacher's Manual	9
Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol • Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Kindergarten - Grade 1 Mathematics	K, 1